

NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, February 9, 2001

Vol. 26, No. 6



FROM THE DIRECTOR'S OFFICE

Dave Cooper

Integrated Desktop Model will streamline support

One of the major challenges for a chief information officer, in any enterprise-computing environment, is improving efficiencies in desktop computing support. At LLNL, this challenge is compounded by a heterogeneous computing environment composed of three predominant computing platforms: Macintosh, PC and UNIX systems.

Lowering the total cost of ownership for such an environment is a complex undertaking. However, there are common sense approaches that greatly aid in the effort. One such approach is the Integrated Desktop Model (IDM) and its supporting components that have been developed by the System Administrator Resource Center (SouRCe) in the Computation Directorate's Systems and Network Department. The Integrated Desktop Model is a systems approach to integrating newly procured computers and the existing computer systems in use at LLNL.

As you are aware, the events of the past two years in the cyber security arena have placed a great emphasis on keeping our systems up to date with compliance requirements in the area of operating system patches, software application revision levels, electronic banners, etc. LLNL can go a long way toward lowering costs associated with supporting these systems by defining, maintaining, and developing a core operating environment (COE) comprised of operating system and related patches, prevalent software applications (Microsoft Office, Netscape Communicator, Meeting Maker, Eudora, etc.), and security settings for each type of computing platform. This will allow the programs to allocate more of their funding for science and less on computer infrastructure support. It will also allow system support personnel to focus more of their time on programmatic requirements.

The Integrated Desktop Model will support and maintain the COE through two main projects, namely, (1) disk imaging of newly procured hardware, and (2) automated software distribution (ASD) capability. The SouRCe group will focus on implementing these two projects for Apple Macintosh and Microsoft Windows platforms for the remainder of FY01. UNIX systems will be addressed in FY02.

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Kuckuck finally ready 'to play'

By Lynda Seaver

NEWSLINE STAFF WRITER

With his retirement barely a reality, Bob Kuckuck says he is beginning to feel a little awkward. Since making his announcement in November, he has attracted the attention of the local newspapers, along with ongoing reminders in *Newsline* and *NewsOnLine*.

He also knows the staff in his office is planning some sort of event, but he's not sure what. They're keeping it a surprise.

So as he sits down to reflect on his career, he wonders out loud, "Is this really worth all the fuss? It's not like I'm dying."

This modesty is typical of Kuckuck, the deputy director for Operations whose almost 38 years at the Lab comes to an unofficial close this afternoon. That's when the Lab will throw a special reception in honor of his service as well as his career achievements. The reception begins at 3:30 p.m. and continues until 6:30 p.m. in the West Café; all employees have been invited.

It's not that Kuckuck minds the spotlight. He's not above calling attention to himself during a little clowning around. In fact, this is the same guy who dresses in boxer shorts, cowboy boots and tuxedo coat, then affixes a hobby horse's head to a scooter so he can escort runners in the HOME Campaign.

It's the reason for the attention that has Kuckuck feeling a little humble. "I'm finally acclimated to my retirement, but it took two years to get this far," he said. While other scientists have retired with careers

See **KUCKUCK**, page 5

FILE PHOTO

Deputy Director Bob Kuckuck says it took two years to get used to the idea of retiring, after 37 years at the Lab.

Kuckuck's career marked by the wearing of many hats

It was the green rolling hills, the sunny weather and the chance to meet Edward Teller that lured Bob Kuckuck to California.

Fresh off of earning his master's degree from Ohio State University, Kuckuck came to the Lab in 1963 to

earn his Ph.D. at the UC Davis Department of Applied Sciences, or Teller Tech as it was known to students back then. The only thing standing in the way was a final interview with

See **CAREER**, page 7

MA and PA buses almost ready to roll into NIF

By Sue Stephenson

NEWSLINE CORRESPONDENT

At the end of January, the first pair of amplifier buses was produced in the high bay of Bldg. 381 and shipped to Bldg. 493, a storage area for the National Ignition Facility (NIF).

These massive enclosures will house the first bundle of NIF amplifiers. The main amplifier, MA, is the larger one, and the power amplifier, PA, is the smaller one. This spring these amplifier buses will be installed into Bldg. 581, NIF.

This effort involved not only the NIF Amplifier Assembly team and Flashlamp Window Assembly team, it also required the assistance of Plant Engineering/NIF riggers to operate the overhead crane, straddle lifter and tugs, and Security Police Officers to control traffic on Outer Loop.

"I'm amazed when I think of all the problems this team overcame due to good planning and hard work. It's a credit to their talent and dedication that a job this complicated was accomplished safely and on such an

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**Saturday science
returns to Lab**

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**Safepatch
in the spotlight**

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LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Sunday 11 There will be a **scheduled power outage** from 7 a.m. to 3:30 p.m. in the following locations: Bldgs. 183, 184 and 197; and trailers 1713, 1714, 1730, 1735, 1879(Annex), 1884, 1885, 1878, 1879, 1886, 1887, 1888 and 1889. Contact: Mark Cardoza, 3-0490.

Tuesday 13 The Lab Toastmasters' club, MicroCentury Toastmasters, is hosting its **annual speech contest** at noon in the Bldg. 361 auditorium. The event is open to anyone interested in observing Toastmasters participants as they impress, persuade, cajole and entertain with their speaking abilities. The Lab club has been well represented world-wide, winning competitions all the way to the international finals. Contact: Fran Brubeck, 3-1266.

Want better relationships? **Codependents Anonymous** (CoDA) meets every Tuesday at noon in Bldg. 571, room 2016. The group offers 12 steps to recovery from codependency. The only requirement for membership is a desire to have healthy and loving relationships. Contact: Mike, 3-4827, or Jane, 4-4689.

UP COMING The Center For Global Security Research will present **"After Globalization: Future Security in a Technology Rich World,"** by T.J. Gilmartin, senior fellow, at 10:30 a.m. Thursday, Feb. 22, in Bldg. 132S, room 1784. The results of the year-long futures project on threats to the United States in the 2015-2020 time frame due to the globalization of nuclear, missile, space, military, information, biology, and geosystem technologies will be presented. Contact: Tami Alberto, 2-5969.

Girls and boys ages 10-14, parents and teachers are invited to a celebration of National Engineers Week featuring **"You're Already an Engineer!"** by Greg Brown, head of exhibits at the Technology Museum of Innovation of San Jose. The presentation takes place at 10 a.m., Friday, Feb. 23, in the Bldg. 123 auditorium. Brown's 30-minute interactive talk will include what it's like to be an engineer and other interesting facts about building exhibits. Contact: Pat Hurst, hurst2@llnl.gov or 2-0246, or Laura Kegelmeyer, kegelmeier1@llnl.gov, or 2-0924, to reserve space.



BROADCAST
SCHEDULE

The DDLS talk by University of Washington professor Buddy Ratner on **"Biomaterials That Heal: Research Into Surface Control of Biology,"** will be broadcast on Lab TV channel 2 on Thursday, Feb. 15, at 10 a.m., noon, 2, 4, and 8 p.m., and Friday, Feb. 16 at 4 a.m.

BRIEFLY

Black History Month celebration continues with luncheon

The Association of Black Employees (ABLE) is sponsoring several events in celebration of Black History month. Each week of the month will feature a separate theme.

Next week features cultural awareness with a potluck luncheon on Friday, Feb. 16, at 11:30 a.m. in Bldg. 571, room 2301. The potluck will celebrate the accomplishments of African-Americans and the history and culture of people of African ancestry. To participate, or for more information, contact Lisa Rashidi, 3-7473.

ABLE will also launch a Valentine's Day scholarship fund-raiser: For a \$10 donation, participants will receive a six-inch plush Valentine bear with photo frame, an 18-inch red Mylar balloon, and a See's lollipop.

Only a limited number of items will be available. Pickup will be Feb. 14 in Bldg. 571, room 2242 between 11 a.m. and 2 p.m. Bring cash or check payable to ABLE. Contact Pearlline Holton, holton2@llnl.gov, or Lisa Rashidi, rashidi2@llnl.gov to place orders.

Celebrate the year of the snake

The Chinese American Network Group's annual Chinese New Year Banquet takes place Friday, Feb. 23, at the Willow Tree restaurant,

6 5 1 3 Regional St., Dublin. Cost is \$15 per person. Lunch will be served promptly at noon; please arrive early for seating. Seating assignments will be pre-assigned on your purchased ticket.

Please purchase your tickets by Feb. 16 as they will not be sold at the door. Tickets may be purchased from: Howard Lew (3-2040), Stephen Wong (2-7948), Dennis Lai (2-5854), Gary Lee (3-0850), Eric Chow (2-0552), Peter Hsu (2-0317), Chris Lee (3-2582), or Pihong Zhao (2-4973).

Valentine's dance to benefit Amigos Unidos scholarships

The Amigos Unidos Hispanic Advisory Group is hosting a Valentine's dance on Friday, Feb. 16, from 7 p.m. to midnight in the South Cafeteria. Tickets are \$12 per person or \$20 per couple. The dance is open to the public.

Hors d'oeuvres, dessert and non-alcoholic beverages will be offered. All proceeds will go toward the Amigos Unidos scholarship fund.

For additional information, contact Alicia Salmeron, 3-0769; Santiago Parra, 4-2811; Xavier Cabrales, 2-7448; or Patricia Martinez,

Water expert to address critical issues for this century

Peter Gleick, a recognized expert on water resources, will present "Critical Water Issues in the 21st Century," the second installment in the Environmental Security and International Water Crisis Seminar Series.

Gleick's talk, sponsored by the Energy and Environment Directorate and the Center for Global Security Research, takes place at 10 a.m. Tuesday,

Feb. 13, in the Bldg. 170 conference room (1090).

Gleick is director and co-founder of the Pacific Institute for Studies in Development, Environment and Security, a non-profit policy research organization. He is recognized as the leading international expert on water resources and their interrelationships with agriculture, climate, industry, international relations, human health, and society in general.

IN MEMORIAM

Dick Pope

Richard R. "Dick" Pope, a former plumber and pipe shop supervisor, died Jan. 31 in Livermore. He was 70.

Pope was a native of New Jersey and lived in Livermore for 31 years. He served in the Navy during the Korean War.

He joined the Lab in 1976 and retired after 15 years. He was a member of the Plumbers Union Local 444 and the Altamont Cruisers, and he enjoyed old cars, collecting dolls and teddy bears, and his pets.

Survivors include his wife of 38 years, Susan; daughter Deborah; sons Richard, Douglas and Albert; 12 grandchildren and four great grandchildren.

Paul Wheeler

Services have been held for Paul Corwin Wheeler, a physicist at the Lab for 33 years. He was 58.

Wheeler was a native of Kansas City and lived in Livermore for 33 years. He graduated from the Rockhurst College and Princeton University

He joined the Lab in 1968, worked as an assistant AD and project manager for the Nuclear Weapons program and was a member of the American Physical Society for 33 years. In 1977, he joined A Division as associate division leader

and had remained there until he death. In 1990 he was awarded a DOE Weapons Recognition of Excellence Award.

Wheeler was a member of the American Physical Society, Alpha Sigma Nu and the Livermore Amador Symphony board of directors. He enjoyed classical music and travel.

Survivors include his wife of 34 years, Pat; sons Paul and Michael, seven sisters and three brothers.

Contributions in his memory may be made to the American Heart Association, 11700 Golf Links Road, Oakland, 94605, or a charity of choice.

Newsline

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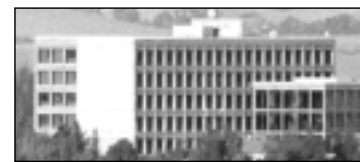
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AROUND THE LAB



Quake prediction talk rolls out science series

By Anne Stark

PUBLIC AFFAIRS

Teens and teachers interested in earthquakes, safe drinking water, light, weather prediction and other scientific research can head to the Laboratory beginning Feb. 17 for the return of the six-week Science on Saturday lecture series.

Starting off the series will be a talk on "Can You Predict Earthquakes?" led by researcher Andrea Cook and Monte Vista High School science teacher Stan Hitomi.

Cook, who has done extensive study of volcanic eruption and earthquake prediction using the Laboratory's Center for Accelerator Mass Spectrometry, and Hitomi, who has worked on earthquake prediction research with Cook, will not only be talking to students about how earthquakes and other natural disasters can be predicted, but will teach the science behind it.

"This is meant to build a bridge between the research lab and education," Hitomi said. "We want this to be a comprehensive package that includes the background leading up to the scientific discovery."

Science on Saturday is a six-week series of

free 90-minute talks geared toward middle and senior high school students. The series, which started in 1996 and is open to the public, has become extremely popular, drawing more than 300 people from the Bay Area to each lecture.

Don Correll, director of the Laboratory's Science and Technology Education Program, said the lecture series continues to pull in a diverse group of students.

"This is a chance for students to meet real scientists and talk about career opportunities," he said. "In addition, the students are able to make connections between what they learn from a science book and how it works in the real world."

The lectures, which cover subjects ranging from whether our drinking water is safe to what makes the wind blow to what do genes really do, will be offered every Saturday, Feb. 17 through March 24, from 9:30 to 11:15 a.m. All of the talks will be in the Bldg. 123 auditorium, just off East Avenue at the southwest gate, and are open to students, their parents or guardians and teachers. Registration is at the door and seating is available on a first-come, first-served basis, with priority given to students and teachers.

The lectures, which cover subjects ranging from whether our drinking water is safe to what makes the wind blow to what do genes really do, will be offered every Saturday, Feb. 17 through March 24, from 9:30 to 11:15 a.m. All of the talks will be in the Bldg. 123 auditorium, just off East Avenue at the southwest gate, and are open to students, their parents or guardians and teachers. Registration is at the door and seating is available on a first-come, first-served basis, with priority given to students and teachers.

The series is co-sponsored by the Laboratory and the Livermore chapter of Sigma Xi, the Scientific Research Society.

Cook and Hitomi's talk is the first of six lectures geared toward students. Other upcoming Science on Saturday talks and speakers are:

Feb. 24 — "How Do We Know if Our Drinking Water Is Safe to Drink?" by Bryant Hudson of LLNL's Analytical and Nuclear Chemistry Division and Livermore High School teacher Sarah Palmer.

March 3 — "What Makes the Wind Blow?" by Jim Ellis, Mike Bradley and Ron Baskett of LLNL's Atmospheric Release Advisory Center and Granada High science teacher Susan Johnston.

March 10 — "What Do Your Genes Really Do?" by Joanna Albala of LLNL's Biology and Biotechnology Research Program and Tracy High School teacher Kirk Brown.

March 17 — "Can We Predict if Our Climate Is Changing?" by Gerald Potter of LLNL's program for Climate Model Diagnosis and Intercomparison, Ron Rusay of Diablo Valley Community College and Amador Valley High School teacher Eric Thiel.

March 24 — "How Light Is Changing Your Future" by Chris Ebberts and Joel Speth of LLNL's Laser Science and Technology Program and West High School teacher Randy Mohenke.

For more information on Science on Saturday, check the Web at <http://education.llnl.gov/sos> or call the STEP information line at 422-6818.

Limited appointments redefined after UCRP changes

Human Resources is soliciting employee comments on proposed policy changes affecting benefits eligibility for certain employment categories. Laboratory career indefinite and flexible term employees are already eligible for these benefits and are therefore unaffected by the changes.

The changes are being proposed because of an expansion in University of California Retirement Program (UCRP) and health and welfare benefits eligibility that became effective Jan. 1, 2001.

As a result of the expansion, certain employees currently ineligible for UCRP benefits will become eligible for UCRP membership, UC health and welfare benefits, and enrollment in Social Security. Eligibility begins once the employees attain 1,000 hours of time on regular pay status in a 12-consecutive month period (roughly six months at full time) starting on or after Jan. 1, 2001, without a break in service of 120 consecutive days or more. At the Laboratory,

these appointments include temporary, non-career indeterminate-time, and rehired retired employees such as Laboratory associates and other retirees hired for a fixed term.

To address the impact of the UCRP changes at the Laboratory while maintaining needed flexibility, the Laboratory is proposing to redefine temporary and non-career indeterminate-time employees as those employed for less than 1,000 hours in a 12-month period. Flexible-term employees would be redefined as those who are employed for at least 1,000 hours over a 12-month period, not to exceed six years from date of hire.

If a temporary employee or non-career indeterminate-time employee reaches the 1,000-hour mark, the employee would automatically convert to flexible-term employee status. If it is anticipated that if a rehired retiree will meet the 1,000-hour mark, the employee would be provided the option of signing a waiver of benefits form, which UC is

developing. If the waiver is not signed and the retiree reaches 1,000 hours, annuitant benefits would cease.

A related proposal would eliminate posting requirements when temporary or non-career indeterminate-time employees automatically convert to flexible-term employee status.

Other proposed changes would provide a no-fault process for automatically ending the appointments of inactive indeterminate-time employees, including career employees who have changed to indeterminate time, if no work has been performed for the Laboratory for at least 24 consecutive months.

For details, including reasons for the proposed changes, go to <http://www-hr.llnl.gov> and click on the Proposed Policy Changes home page. The last day for employee comment is March 9. Comments should be sent to Virginia George at L-708 or george13@llnl.gov.

Computer security system 'Safepatch' earns Lab team leadership award

A team of Lab computer scientists with the Information Operations Warfare and Assurances Center received a Government Technology Leadership Award for the Safepatch Project.

The award was handed out in late 2000 at the Reagan building in Washington, D.C.

Safepatch provides a tool to automate security patching of computer systems.

"Automating the evaluation, distribution and installation of patches on a network of heterogeneous systems significantly reduces the amount of time and effort required by system administrators to maintain and secure these systems," said project leader Marcey Kelley. Other project team members were Tony Bartoletti, Terry Brugger, Lauri Dobbs, Scott Elko and Kevin Tapscott. The SafePatch management team was also present at the awards ceremony. The management team members were Christy Chivers, Ron Schmucker and Ted Michels.

"We started with a proof of concept for this



The Safepatch Project team, which earned the Government Technology Leadership Award.

project in 1996," reported Kelly. "We moved into final implementation and production in 2000."

Funded by DOE and the Air Force, Safepatch was developed first for Unix Solaris systems and now additionally operates on Unix Linux (RedHat) systems.

Unix systems are the first targets for patching tools because of the huge number of security relevant patches released for them. A system purchased with the first release of Solaris 7 just 18 months ago already needs over 150 patches to repair all security-related issues.

Timely patching is particularly important because the majority of successful attacks and compromises of computer systems find a vulnerability that has a fix available, but the compromised computer has not yet had the fix installed.

The Safepatch system is already operational within the Lab's Computer Incident Advisory Center (CIAC) and the Air Force Information Warfare Center at Kelly Air Force Base in San Antonio, Texas.



NEWS YOU CAN USE

ISM X-FILES / by John Maduell

Sponsored by the LLNL ISM Rollout Implementation Team

Use portable heaters safely

Portable heaters are popular during the winter. However, they consume large amounts of electricity, which translates into high current loads.

Plug heaters into the proper electrical outlets.

What Happened

Excessive heating, melting, and fire can result when high-current appliances such as portable heaters are plugged into temporary strip plug devices (either with or without surge suppression).

Use three-pronged grounded plugs.

What Was Learned?

Temporary plug devices are not manufactured to be used with high-current appliances such as space heaters and coffee pots.

Possible Solutions

- 1. Never use portable power strips with heaters.
- 2. Plug high-current load appliances such as space heaters, coffee pots, toasters, hot plates, or vacuum cleaners directly into wall outlets. If an extension is needed, use only cords rated to safely handle the load.
- 3. Be sure to turn off or disconnect the equipment when it is not in use.

SLY the Safety Fox

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For further information or a brief presentation in your area, call Ron Young, team leader for Shop Stock, 4-4100 or pager 5-5276.

INTERNAL TRANSFER OPPORTUNITIES

Tag	Requisition	Classification	Title	Organization
DO	1631		AD for Administration	Director's Office
DO	1632		AD for Laboratory Services	Director's Office
NF	1598	105.2	Document services section administrator	NIF Programs
DT	1602	196	Executive staff member/AD resource manager	Defense & Nuclear Technologies
DO	1466	200	Scientist	Director's Office
DO	1633	200	AD Safety and Security	Director's Office
NF	1559	200	Scientist	NIF Programs
BS	1567	225	Biomedical scientist	Biology & Biotechnology Research
BS	1597	225	Biomedical scientist/AD for comparative genomics	Biology & Biotechnology Research
EE	990	249	Electronics engineer	Electronics Engineering
EE	1554	249	Electronics engineer	Electronics Engineering
CO	1568	285	Computer scientist	Computer Applications Organization
CO	1589	285	Computer scientist	Computer Applications Organization
CO	1615	285	Computer scientist	Computer Applications Organization
CO	1621	285	Computer scientist	Computer Applications Organization
DT	1595	405.3	Administrative specialist III	Defense & Nuclear Technologies
DT	1646	405.3	Administrative specialist III	Defense & Nuclear Technologies
PT	1394	405.3	Administrative specialist III	Physics &d Advanced Technologies
AD	1522	405.4	Administrative specialist	Director's Office
NF	1548	405.4	Administrative specialist IV	NIF Programs
PT	1320	405.4	Administrative specialist IV	Physics & Advanced Technologies
PT	1508	405.4	Administrative specialist IV	Physics &d Advanced Technologies
EP	739	504.1/2	C&MS technician/technologist	Environmental Protection
EP	1490	504.1/2	C&MS technician/technologist	Environmental Protection
EE	1592	531.3	Senior electronics technologist	Electronics Engineering

Technical Meeting Calendar

Friday
9

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
"Accounting for Stability: Accurately Estimating the Error of Numerical Solutions of Differential Equations," by Donald Estep, Colorado State University. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Xabier Garaizar, 3-1521, or Leslie Bills, 3-8927.

Saturday
10

BAY AREA SCIENTIFIC COMPUTING DAY 2001
INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
The Bay Area Scientific Computing Day is an informal gathering to encourage the interaction and collaboration of researchers in the field of scientific computing from the San Francisco Bay Area. 9 a.m. No registration fee. Contacts: Edmond Chow, 3-1915, or Daniel White, 2-9870.

Monday
12

UC DAVIS, DEPARTMENT OF APPLIED SCIENCE
"Halback Arrays: The Key to New Kinds of Magnetic Bearings, Maglev Systems, and Motors and Generators," by Richard Post, LLNL. 4 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Refreshments served at 3:30 p.m. for a "Meet the Speaker" session before seminar and at 5 p.m. after the seminar. Contact: Estelle Miller, 2-9787.

Tuesday
13

ENERGY & ENVIRONMENT
The second talk in a seminar series on environmental security and the international water crisis, by Peter Gleick, Pacific Institute for Studies in Development, Environment and Security. 10 a.m., Bldg. 170, room 1091 (uncleared area). Contacts: Richard Knapp, 3-3328, or Nina Rosenberg, 4-5212.

Wednesday
14

MATERIALS RESEARCH INSTITUTE
"Statistical Physics of Dislocation Patterning in Two Dimensions," by

Robin Selinger, Catholic University. 3:30 pm, Bldg. 219, room 163 (open area). Contact: Jim Belak, belak1@llnl.gov, or Miriam Rinnert, rinnert1@llnl.gov

Friday
16

INSTITUTE FOR GEOPHYSICS & PLANETARY PHYSICS
"High Energy Emission from Active Galaxies," by Greg Madejski, Stanford University. Noon, Bldg. 319, room 205 (uncleared area). Contact: Joanna Allen, 3-0621.

Deadline for the next calendar is noon, Wednesday, Feb. 14.

- Address e-mail to tmc-submit@llnl.gov or fax to 2-9291.
- Mail listings to Technical Meeting Calendar, L-797.
- Telephone 2-9709 for information regarding the printed calendar.

BOB KUCKUCK



KUCKUCK

Continued from page 1

that have notched more years than Kuckuck put in, the caliber of his dedication is without argument. He is fiercely proud of the Lab, and works to protect its image much like a parent raising his kids.

"Bob has always been extremely proud of the Lab," said Wayne Kennedy, the recently retired senior vice president for the University of California. Kennedy has worked closely with Kuckuck since 1992, when Kuckuck went to UC as special assistant to the senior vice president for Laboratory Administration. Kuckuck and Kennedy worked together to help negotiate the UC-DOE contract in 1997, as well as the modification that was signed in January.

"Bob has really come up through the ranks," Kennedy said. "He invested his life in the Lab, and the place means a lot to him."

"For a guy like Bob, making the decision to retire doesn't come easily. Once you make that decision, it takes some getting used to. Of course, as someone who has recently been in the same boat, I can safely tell Bob that he will enjoy the decision he made. Immensely."

"There is so much that I will miss," Kuckuck said. "I will miss the intensity, I will miss the interactions and the team building, and I will miss the people. It is hard not to get attached to a group like this," he says of his office staff. "Right now I feel like I am parting with family."

Since arriving at the Lab's gates in 1963, Kuckuck has worn virtually every hat, changing from graduate student working toward a Ph.D., to nuclear physicist, to test director, senior manager and finally deputy director. He has seen monumental changes at the Lab, from the end of the Cold War and the beginning of the science-based Stockpile Stewardship Program, to complete overhauls in Laboratory operations and administration. He helped the Lab as it immersed itself in laser research to become the world's leader, spearheaded a cost-cutting initiative that would save the Lab tens of millions of dollars in operating costs, and he's watched the surrounding valley grow from cow-towns and farmlands with little interest in the Lab, to suburban hubs that question every move.

"When I came here the Lab was much smaller. There was a very clear mission for the Lab and everyone understood it as something important. There was a tremendous amount of energy and it was easy to get caught up in it."

"Today things are very formal. There are more rules, more processes, and less public tolerance for mistakes. Anyone working on a project has to become more involved in public matters. The spirit is still there, but the energy levels and focus have changed."

Ask Kuckuck which part of his career he enjoyed



Bob Kuckuck has never been above a little clowning around, particularly during the Run for HOME.

most and he will give the diplomatic answer — all of it. But his eyes light up when he talks about his tenure as AD for nuclear testing, from 1984-91. Kuckuck oversaw about 50 tests and he turns animated when he talks about the way the ground would swell and shake during each test, much like an earthquake.

"If I had any wish I would still be doing that fun job," he said. "It had everything, but particularly a camaraderie unmatched anywhere else I've worked." To the uninitiated, such an assignment would sound grueling. There were the long, bone-rattling flights over desert mountains in an unpressurized DC-3 or F27 — one time the F27 even slid off the runway when its landing gear broke. There was also an emergency landing in a damaged military helicopter. Then there were the months of long stays in a remote desert.

"You drank beer at night and you stressed during the day," he said, laughing. "There were long hours leading to any test and it really brought people together. It was a real team sport. We were combining good science with important work for the benefit of the country. When the test was complete we knew we had done something extraordinary."

"Bob's career has always been extraordinary, and under his leadership, our operations have thrived," said Lab Director Bruce Tarter. "His role in our relationships with the University of California and with the Department of Energy have been crucial. His departure will be felt by all elements of the Laboratory."

"Bob has been a resource for all us to default to," added Jeff Wadsworth, the deputy director of Science & Technology. "With his scientific background as well as his operations expertise, he has a very broad

understanding of all the issues, and he wants to make sure everyone's concerns have been addressed. Sustaining the science and technology base is a huge challenge. I will truly miss the uniqueness of character Bob has brought to his position."

In addition to the expertise Kuckuck brings, Wadsworth says he will miss the sense of humor. Kuckuck and Wadsworth have been playing off each other since they began working together in 1995, always trying to make the other the target of a good oneliner. It's not unusual for them to break into a "roast" persona at awards gatherings, birthday celebrations, and the like — sometimes even donning special costumes.

"Bob's ability to joke around, laugh at himself and make people laugh is a tremendous asset," Wadsworth said. "When he's around you've really got to protect yourself — at all costs."

"Bob doesn't suffer from the little bit of arrogance I often see in other scientists," Kennedy said. "He has always been very approachable and very direct."

In discussing Kuckuck's career, Kennedy said he is aware of recent organizational changes made to the Operations side of the Lab, in which line management functions have been removed from the deputy director's office and assigned to their own directorates. "That's the biggest compliment anyone can pay Bob," Kennedy said. "He leaves and the Lab acknowledges that they cannot find one person to fill his shoes."

Kuckuck sees the changes to his side of the Lab house as a "great opportunity. This is a chance for real team building." He admits he still has occasional apprehension about leaving — for example, he'd like to come back to see NIF when it is up and running.

"The Lab has always been an exciting place to work. In all the time I have been here, there has not been one assignment, one project someone has taken on where I thought 'that cannot be done.' The creative energy here, the sense of dedication — all of this makes me extremely proud to have spent such a big part of life here. How can anyone not miss that?"

Kuckuck literally took two years to convince himself to retire. His final argument was nothing out of the ordinary — "the time just felt right." However, he does add that when his wife Marilyn, his high school sweetheart from West Virginia, retired last August, "it started getting easier to make the decision."

Though he will continue on at the Lab in a reduced capacity — he is staying on to assist in the upcoming employee survey and he will continue to work a few contract issues — he already has a long list of things he is ready to take on.

For starters, he plans to do some horseback riding and learn cattle roping — something he immediately liked after participating in a "celebrity" cattle penning competition five years ago at the Livermore Rodeo, which he won. He wants to paint, play tennis, continue piano lessons, scuba dive, travel and fly light aircraft (he is a licensed pilot), and even bungee jump on occasion.

He's also going to play a "requisite amount" of golf, write some fiction and family history for his grandchildren and he wants to become an accomplished chef. He

has signed on for a number of cooking courses, with the eventual goal of traveling to France with Kennedy someday for specialized training. "I can't even boil a pot of water," Kuckuck laughed, "so this should be interesting."

It's a renaissance retirement for what has been a renaissance career. "But I don't really think of it as retiring," he said. "I just want to do some different things. Those renaissance types — they're the ones who are quite accomplished at all those things they do. I don't want to spend that much time on any one thing. I just want to play."



Bob Kuckuck will spend some of his time learning to rope and ride, albeit via horseback. Perhaps it was his perch atop Niffy, to kick off HOME, that sealed his decision.



Bob Kuckuck, shortly after his arrival in 1963.



CLASSIFIED ADS

See complete classified ad listings at
<https://www-ais.llnl.gov/newsline/ads/>

AUTOMOBILES

1986 - Thunderbird, lt blue, loaded incl CD player, turbo 4 cyl, high miles, new engine, well-maintained, \$2800. 925-516-7524

1993 - Honda Del Sol. Blue, 52K miles, 5 speed, AC, CD changer, am/fm cassette, alarm, custom wheels, removable top, bra, and more. \$8500/OBO. 925-447-8264

1988 - Camaro, original owner, V8/305, AT, AC, cruise, AM/FM/Cassette, 60K on engine, new alternator/battery, \$3500 925-447-8613

1998 - Nissan Maxima 4dr 5spd 3.0L V6 24k mi. 5yr/60k wrnty white/gray Alpine CD alarm tint \$15,500 925-449-8783

1989 - Ford Taurus SHO. White, very good condition, power windows and locks, sun roof, A/C, cruise. Runs great. \$2900 obo. 209-234-2337

1987 - Accord LX, gray 4dr. w/ at, ac, pwr win/locks, CD, sunroof, 248K mi., runs great, very clean, \$3000 OBO. 209-239-5685

1988 - Honda Accord LX. Excellent exterior & interior. AT, AC, cruise, power mirrors & aerial, security system. 110K. \$2,200, OBO. 510-559-9921

1999 - Miata covertible, deep-green, beatuiful condition, very low mileage, auto trans., tape-CD, Bose speakers, \$18,500. 925-935-4165

1993 - Pontiac Grand Prix. Excellent condition, A/C, C/C. AM/FM/Cassette. 78K mi on engine, 134K mi on car. \$3500. 925-485-1988

1990 - Acura Legend, 4Dr, 91K miles, moon roof, fully equiped, 1 owner, exc condition, \$7,300. 925-447-8780

1989 - Nissan SE 4X4 Pathfinder, 5 spd. Moon Roof, Trailer Hitch, A/C, Power Windows/Door locks, Cruise Control. Excellent Condition. \$8,500 or B.O. 925-443-4360

1994 - Honda Civic DX Coupe, 144,000 miles, new tires, CD player, Green/Teal, good condition, \$4,000. 925-634-2970

1989 - Blue Camero RS, V8. Runs great, smogged, registered and ready to go! \$3,500 209-239-2639

1989 - Jeep Cherokee Limited, 4x4, 4.0 l engine, 108k mi, tow pkg, all power, A/C, ABS, leather, upgraded stereo, good condition, w/ski rack. \$5,300/OBO 925-449-8849

1995 - Mitsubishi Eclipse RS, excellent condition, loaded with extras, tinted windows, new tires and rims, stereo. 9K 925-455-0772

1991 - Geo Storm, 5 spd, A/C, AM/FM Cassette, 2 door, good condition. \$2700 OBO. 925-606-4266

1989 - Buick Century, 4 door. V6, Automatic Trans., A.C. New tires, Paint, Brakes etc. 131K miles. Excellent Condition. \$2500.00 O.B.O. 925-449-5441

1989 - Nissan Pulsar. Great Commuter Car. Runs like a champ. T-tops, AC, 120,000 miles. Very Clean. \$3200 OBO 510-813-0657

1985 - Subaru GL wagon, 4 wheel drive, 5 speed manual, air conditioning, stereo \$1,000 925-455-9414

1969 - Corvette Stingray T-top, 427 ci, 4 spd, custom wheels, fresh and fun to drive \$11,900 209-545-1308

3 New Tires-P225-70R15-Trailhandler Radial APT Asking 150 for all three. 209-835-7127

1989 - Mistubishi Montero 2dr 4WD. 5-speed. Nice small SUV. Runs Great. Approx. 113,000 miles. Loads of fun. \$2500. Call Chris 510-524-8576

HD Lumber Rack \$100 Carpet Kit \$50 and 2 tires size P275/70R16 like new condition \$75. All from a Ford F-

250 long bed l traded in. Take all for \$150. 209-743-0964

AUTOMOBILE ACCESSORIES

Shop manual, 1988 Toyota Camry, \$15 925-829-317514 inch TIRES: 14 x 7:00 good used bias TIRES fit many cars/great for trailer or pickup. 2 for \$20 925-447-7070

Trailer brake control, inertial, Tekonsha Commander, complete, \$25 925-829-3175

Complete set of stock tires and rims off 1998 Chevy 1 ton. 8 lug rims with chrome hubs/rings etc. General tires 245/75/16 LIKE NEW! \$350.00 obo 925-754-6390

Above ground fuel storage tank and stand. 300 gallons. Clean. Must sell. \$300 or best offer 925-443-7777

Four aluminum wheels and tires, P225 70 R14, 97 Ford Ranger Star pattern, one steel wheel with new tire, \$125, 925-455-0836

BICYCLES

Custom racing and road bike, Reynolds 501 frame, wide-range, 15-speed, Campi shifters, gold color, rack, pump, exec shape, \$99. 925-455-0383

Trailblazer 15 speed mountain bike, Brand new never used, won in raffle. \$50 925-447-4611

BOATS

1996 - Boston Whaler, 15 ft, Dauntless 70 HP Johnson, Pwr Trim & Tilt, Extras, Galv. Trailer. Less Than 100 hrs, \$12K. 925-455-8526

CAMERAS

Minolta X-700 35mm SLR camera w/ 50mm lens, 80-200mm lens, filter, flash and bag. \$250. 925-443-5213

Photographic enlarger; Omega Type D-II. Very good condition. Must sell. \$200 or best offer. 925-443-7777

ELECTRONIC EQUIPMENT

HiEnd Mitsubisi AMP/CD/Cassette home theater system \$450; Nintendo64 GameConsole/6games \$300 B&O linear tracking turntable \$100. Offers accepted. 925-736-7799

Modem, MAC, 56K, Zoom, \$30 925-829-3175

HP DeskJet 500 Printer, \$40, 925-455-0836

GIVEAWAY

FREE - Womens bicycle. Located on site at B405. Bring own lock and cable. Multi speed, red, hand brakes. 209-825-5489

Computer desk, 59 1/2 inches long. Free - you pick up. 925-443-5552

California King size mattress/box spring/frame good condition. 925-449-7657

Comfortable couch with queen sleeper. Camel courdoroy. Good condition. You pick up. 925-455-6436

Broken marble floor tile. 3 boxes apprx 30 lbs. good for arts & craft projects. colors are denice rose & tea rose. 925-455-5978

HOUSEHOLD

Huge household sale: Avon, books, dolls, furniture, tools, dishes, records. Sat. 2/17, 9-4; Sun, 2/18, 9-12. 4168 Florida Ct., Livermore. 925-449-7086

Dishes - Complete service for 8+ of Mikasa dinnerware. Pattern is Whole Wheat Jardiniere. \$25.00 Magalnite pots and pans. \$35.00 925-443-9110

Folding table, picnic type, 30 inches by 8 ft, sturdy, \$20 925-516-7524

Oak twin captains bed w/ 4 drawers plus space, headboard w/ shelves orig. \$500 sell \$250. Oak 5 drawer dresser orig \$469 sell \$200 209-832-2862

6pc Rattan lounge set \$250, new gas hedger \$90, echo gas blower \$55, room electrostatic air purifier \$95 925-736-7799

Refrigerator/freezer. Side-by-side with ice maker. Off-white. Good condition. \$175. 925-443-5213

Chairs: Vinyl rocker/recliner, vinyl, rocker.Various condition. Best offer. 925-443-2465

Vacuum cleaner, upright, Eureka, w/attachments, exc cond, \$60 925-829-3175

Oak Dinning Room Set oval table with leaf, 6chairs, Oak China Hutch with glass cabinets, lace and misc. linens. \$1900obo 209-551-3340

Bassett recliner, multi-phase vibration, medium slate blue, \$65. Singer Touch-n-Sew 640, 18 disks, foot control, case, \$60. 925-455-0383

Oak game table w/ 4 red velvet plush chairs, excellent cond. - \$1000, tan hide-a-bed couch, good cond. - \$150 209-239-5685

Entertainment Unit wood grain--top 2 glass doors, middle shelf open, bottom 2 doors (87Hx17Dx23.5W) \$100 925-449-2008

LazyBoy love seat: wheat color, comfortable, hardly used. Pd \$900, sell \$450 or bo. 209-239-3116

Ethan Allen furniture: 2 lt blue comfychairs, pd \$900 ea, sell \$400. Matching ottoman \$150. Cherry end table, drwr/shelf \$200. All like new. 209-239-3116

Bunkbed - white metal frame - good condition. Top twin, bottom full. Bottom converts to couch. Free full sized futon, no top mattress. \$25.00 925-606-6616

Desk, teak wood with book case top and file drawer. L-shaped return with 3 drawers. Very nice condition. \$100. 925-443-4585

Air Conditioner - Whirlpool QuietMiser, window-mount, 3-speed, Comfort Guard thermostat, 5,000 btu/hr cooling. \$20/OBO. 925-447-1808

Sectional couch w/2 ottomans, cream & peach, \$300. Rug 6.5 x 10 ft (navy/brown) \$35. Cream drapes 10x7 and 8x7, with decor. rods, \$125. 925-455-4896

Bassinet, Brand new, never used! Paid \$85, sell for \$40 925-447-4611

Sectional couch w/2 ottomans (blue/gray/mauve pattern) Like new! \$350. 925-634-7513

Antique oak table and two leaves \$400.00 or trade for an oak entertainment center or loveseat that makes into a bed. 209-823-5704

Dinnette set. Modern design. Smoked glass top with black metal frame. 4 black metal and vinyl chairs. 42x42 inches. Excellent condition. \$199 obo. 925-455-4415

California King box spring/mattress/frame \$150. Dinette w/matching hutch, great condition \$200. Macintosh Power PC w/lots of software and games \$200. 209-836-1284

Large Armoire, three sections, original brass/porcelain hooks, six draws. Must sale or trade for a different quality antique dresser. 925-449-7751

Singer Electric Sewing Machine, circa 1940, in walnut cabinet, with drawer. \$125 , OBO. 925-443-1969

Refrigerator, Kenmore, 18 cubic feet. White. About 5 years old. Glass shelves, icemaker. \$350 925-837-6562

1930s solid Walnut Vanity or Dressing Table. Waterfall style with burl design. Folding tri-mirror. Hand carving on mirror and drawers. \$295.00 obo. 925-443-7402

White Metal Bunk, top twin w/mattress, bottom double, very good cond., \$195 negotiable. 925-449-2169

Comforter for Day Bed, peach color. Dust ruffle and Shams. \$15.00 925-443-8690

White, upright, 13.1 cubic ft. Wards brand defrostable freezer. 8 years old. Excellent condition. Operating manual included. \$100.00 cash and carry. 925-449-0343

LOST & FOUND

FOUND dark grey eyeglass case and glasses on South gate Dr. just before noon on Feb. 1st, I saw them fall while you were riding a bike. 2-2461 or 209-239-2639

MISCELLANEOUS

TV Stand b/o, Two End Tables b/o. 209-836-9082

2 sets Disney Fun-to-Learn, 19 volumes each, elem age, \$40. Also Berenstein Bear Collection, \$10 925-516-7524

Boy/Girl 0-3 yrs. clothes, Old Navy/Gap/Gymboree brands. Toys, Exersaucer, car seats, oak changing table, etc. Excellent condition and prices. 209-832-2862

2 Ladders 20ft/ext & \$60 8ft/step \$30, modern solid walnut office desk \$150; Sony 17inTV \$100; Sears table saw \$150; BO accepted 925-736-7799

Framed painting by local artist Norma Webb 24x36 \$175, Samsomite 24 inch hardside suitcase \$35 925-447-8613

Storage Shed, metal 8x10. Foundation kit & shelves are still in box. You take down/haul. \$200 for all. 209-833-1201

Sand blaster, Campbelland Hauselt, 5 gal. cap, \$45 925-829-3175

MOVING SALE: Woodworker bench w/2 vises \$100; hand & power tools, electronics equipment, microscope, desks, chairs, plus much more. 925-449-2008

Inversion Table for Sale...Less than 1 yr New...Helps those wanting relief from back pain. \$250 or best offer. 925-294-8781

Telescope - Meade Starfinder, 10inch Newtonian (mirror-type), in Dobsonian mount, two eye-pieces, star-charts. Gathering dust: \$350obo. 925-373-3146

Cement mixer; electric. Old and reliable. Must sell. \$150 or best offer. 925-443-7777

Power Craft 10 inch table saw, good condition \$100 or B/O. Saw Smith radial arm saw, good condition \$100 or B/O 925-449-7657

Ski lift tickets! One Heavenly Valley \$50 (regular price \$57) One Sugar Bowl \$43 (regular price \$50) 925-846-9564

Reddy Portable Propane Heater--model RLP100 65,00 to 100,000BTU heats up to 47x50sq.ft. area 925-447-6834

HEALTH RIDER, low mileage unit in excellent condition. Seatcover included.\$190 or BO 925-828-5225

Computer Table, grey top, 36 by 20 inches. Pull out shelf and keyboard. New condition. \$35. 925-837-6562

MOTORCYCLES

1990 - Honda Pacific Coast, 800 cc, red, excellent cond, low mileage, incl manual, accessories, \$2300 925-516-7524

1983 - Honda Silverwing GL650, windscreen, 18500 miles, runs great, very nice condition. \$1400.00 925-828-2609

1991 - ATK 605 Enduro: WP suspension, Rotax motor w/electric start, street licence for dual sport. This is a serious enduro made in the USA. \$3000.00 Firm 925-449-8009

1978 - 1978 suzuki gs-750c, basket-case, all the parts are there, free, haul it away 209-847-7432

1979 - Yamaha YZ400. Rideable, needs some attention. Green stick-ered thru June01. \$500.00 (firm) also gets you a licensed utility trailer to haul it in! 209-832-7431

MUSIC INSTRUMENTS

Soprano Melodion, Suzuki S-25 with case, 2 full octaves, never used. You blow, play any tune or chords on keyboard. \$50. 925-455-0383

PETS & SUPPLIES

Looking for a good home for two very loving adult cats. Healthy with current vaccinations. Hard to give them up but fiancée is allergic. 925-371-5393

Keep your horse happy. Outdoor horse blanket/windbreaker for sale, \$75. Very good price. Very good condition. Purchased brand new in November. 510-657-5876

Red Queensland puppy, male, 3 months old, has shots. Looking for a home. He is a cutie, and has a great nature. 209-847-7432

RECREATION EQUIPMENT

Exercise equipment: Stepper \$25, Multipurpose gym exerciser \$25, Karaoke cassette player \$25, 3 pairs of ski s \$15 each 925-736-7799

Basketball hoop, portable type with clear backboard, excellent condition, will deliver, \$150 925-484-4099

Home Gym-3 Station,Vertical Raise/Dip,Stair Stepper,Weight Station w/Bench Press,Lateral Pulldown,PecDec,Arm/Leg Curl,Arm/Leg Press \$200.00 925-371-1374

Norditrack Ski Exercise Machine, Classic model, like-new condition, \$125.00 925-828-2609

Nordic Track \$25, cardio glide \$20, ab roller \$10. Excell cond. 925-447-4611

Skiis, Boots, Poles. Downhill (Dynamic/Nordica), Cross-Country (Fisher/Salomon), & Back-Country (Karhu/Asolo). Boots sz 9. Please call for details. 925-455-4415

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

Fremont - Vanpool needs driver for half of route.Decoto/Mission/Paseo Padre. 8am-445pm.Get \$\$ off and tax incentives. 510-792-7848, ext. 4-3791

Tracy - South part of town; seeking 1 non-smoking rider/driver for 4-person carpool; 8:00 - 4:45. 209-835-8065, ext. 2-5859

Oakland/ Montclair - Montclair/580, friendly vanpool, reading lights, reclining seats. 8:15 - 5; Stops Montclair vil-lage, Lincoln/Hwy 13, \$120/Mo. 510-547-4040, ext. 2-0064

Palo Alto/Menlo Park/Mountain View - flexible,occasional 650-838-9451, ext. 3-3330

Danville - van pool 8-4:45 \$55/mo. There are county, State and Fed incentives which can make the first 3 months almost free. 925-837-4097, ext. 2-6234

Lafayette - LaMOrinda (also Walnut Creek stop at Rudgear Rd) luxury

CAREER
Continued from page 1

Teller.

It was a grueling process, not because of the scientific questions the Lab’s founder posed to the 24-year-old upstart, “which I could not answer,” but because of personal questions, mainly how would he support his wife and two young daughters. It was Teller who reminded Kuckuck that he would have to give up his monthly salary. When Kuckuck told him the amount, \$750, Teller shot back “\$750? You’ll never even miss that.”

In the end, Kuckuck was accepted and he didn’t have to give up his salary. Those two factors may explain why he stayed on at the Lab for almost 38 years.

Since that time, Kuckuck has gone from experimental scientist to associate director for Nuclear Testing to special assistant to the University of California to deputy director.

Kuckuck made his scientific mark during the first years of his Lab career. His first assignment was to adapt semiconductor radiation detectors for use in high-intensity radiation beams, such as the gamma rays from an underground nuclear explosion. The detectors had only been recently invented, and until then they were used to detect single photons or particles and would emit only a tiny pulse of electrical charge.

Kuckuck adapted these detectors so they could survive billions of photons striking simultaneously, as well as emit large electrical currents, thus measur-

ing how many photons struck the detector.

“They became the principal means for measuring fission gamma rays for underground tests,” said Kuckuck. In fact, his paper on these detectors still stands as a valuable resource on the subject.

At the same time as he began developing variations of these detectors, he began working on his Ph.D. dissertation, studying polarization of low-energy electron bremsstrahlung, or X-ray radiation. Kuckuck personally designed and built a 150-keV electron accelerator to generate bremsstrahlung X-rays. “The result of this work taught us a lot about generating X-rays, particularly electron-induced fluorescent X-rays, and contributed to the subsequent development of the X-ray calibration sources we used for the duration of nuclear testing.”

In the early 1970s, Kuckuck switched from X-rays to studying the phenomena of pumping excimer lasers with intense pulses of electron and gamma radiation. By 1972, Kuckuck had earned his doctorate and began moving away from what he calls “the real hands-on science work.”

In 1975, he was named assistant to the program leader for the Solid State Lasers/Inertial Confinement Fusion Program, where he was responsible for program planning during the building of Shiva. ““Even back then we were building the world’s largest laser,” he said proudly.

In 1977, Kuckuck was appointed assistant to the associate director for Nuclear Testing, where he planned and scheduled the Lab’s underground testing program. He served as program leader for the Treaty Verification Research Program from 1979-81 and as deputy division

leader of L Division from 1979-82.

During this time, L-Division was responsible for the design and execution of weapons physics experiments, including all underground nuclear tests at the Nevada Test Site.

He went on to become deputy associate director for Nuclear Design, and in 1984 he was named associate director for Nuclear Test-Experimental Science, a position he held for seven years. During those “Star Wars years,” Kuckuck was responsible for directing the Lab’s underground nuclear weapons and experimental science program, as wells as Treaty Verification Research.

Kuckuck left science for the operations side of the Lab in 1992, when he was named associate deputy director to Duane Sewell. Kuckuck would eventually lead the Lab’s efforts in support of the UC-DOE contract negotiations.

In 1992, he was named UC special assistant for Laboratory Administration, reporting to the UC senior vice president for business and finance. “I had to wear a hat for all three labs. It was odd at first, but it’s a job I look back on with a lot of pride.”

“We always thought he was fair,” Sig Hecker, the former director of Los Alamos, has said. “Bob took great steps to keep the laboratories working together for their common good.”

In his final role at the Lab, that of deputy director for Operations, Kuckuck oversaw implementation of a massive Labwide cost cutting and streamlining effort, slashing overhead by almost 30 percent and freeing up \$50 million to funnel back into scientific programs.

Vanpool (reclining seats, reading lights) 8-4:45, \$115/mo (pretax reduction available) 925-376-5346, ext. 2-3005

SERVICES

PARENTS troubled by TEEN behavior? What to do now, before too late? Free info on ToughLove, & Residential Treatment Facilities. (LLNL Meeting) 925-447-7070

Want to go away but have no one to watch your house, pets and plants? Call me, I am mature and dependable. 925-447-3977

House Painting - Exterior & Interior, 15 yrs experience w/free estimates. 925-447-5132

TUTORING in high school and college chemistry and math. 925-443-2095

Wanted: Office Manager with Quick Books experience to work from own home 20 hours week-Benecia area. 707-580-0078

SHARED HOUSING

Livermore - Bedroom and bath in new home close to lab; house privileges; N/S \$650/month, \$350 deposit 925-371-6232

TRUCKS & TRAILERS

1991 - WANTED -- CAMPER SHELL that can fit onto a 1991 Toyota standard bed pick-up truck. 510-581-4609

1995 - Ford 150XL, long bed, 5 speed, 115,000 mi. Runs great, new trans/clutch, AC, AM/FM, custom wheels, \$7,600. 209-832-8514

1954 - F100 302 runs good auto(C4) pwr steering & seats re-wired with fuse panel spare parts include lots of chrome. You finish cosmetics. \$4500.00 925-679-1288

1990 - 4runner SR5,white w/blue interior,4WD,V6,5spd, new tires, AC, 10 disc CD, sunroof, thule roof rack, towing package, engine rebuilt, \$9,735. 925-803-9928

Cab-over camper shell with toolboxes. \$200 or trade for camper shell. 925-443-7828

2000 - YAMAHA TTR 225 Excl/cond. w/2 yr warr. Must sell. \$3,500/OBO 925-961-0293

1998 - Ford Ranger SuperCab XLT,

4.0L V-6, AT, PW, PL, PM, CC, ABS, CD, SRW, alarm, remote entry, bedliner, toolbox. 17,300 miles. Like new. \$13,499/OBO 925-456-7910

1986 - Toyota 4wd sb pickup, 117k miles, a/c, 5 speed, warn winch, tube bumper/ nerf bars, leer shell & more Nice camping/ snow rig.\$5250 209-368-4286

1989 - GMC Suburban, 1/2 ton 4x4, tow pkg, AC, 3rd seat, new trans, 102k, \$7,000/bo 209-862-4604

1987 - 87 Toyota Forerunner Garaged Clean Well Maintained 2 Dr 4x4 129k Great Ski Vehicle. \$10k obo. Rob&Pam 4-3747, 606-7901 925-606-7901

1987 - Ford Ranger Pickup,PS,PB,AC,Bed Cover,AM/FM/Tape,147,000 miles, Used every day to commutte. \$1,750 925-846-1751

Weather Guard metal storage box Fits small size pickups, good cond. \$75.00 925-447-6834

1995 - GMC Z71 4x4 extended cab, camper shell, excellent condition, \$17k OBO. 925-373-9016

1997 - Ford Expedition, Eddie Bauer - 5.4L V8; w/tow pkg. White w/tan leather; 48k miles. Clean! \$24,000. 925-376-7389

1974 - Toyota Landcruiser FJ40. Engine has burnt valve, 4 speed trans and 4x4 work well. Average condition. Spare parts and Chevy V8. \$3500 OBO 209-679-1096

1994 - Ford F150 XL, 5.0L V8, Short bed, PS/AC/AT, cruise, tow package, flowmaster exhaust, \$9500. 209-835-6478

1987 - GMC truck 1/2 ton long bed,149K miles,5.7 li F/I, 4 speed auto, PS,PB camper shell good cond. work truck \$3000 or B/O 925-449-4262

1991 - Toyota pickup, 5 speed, fuel injected. Original owner, looks/runs great. Camper shell, carpet kit, bike rack, chrome wheels, 155K miles, \$4,500. 925-373-8239

1976 - Ford F-250 3/4 pickup. \$1450.00 or B/O 209-577-5805

1983 - Chevy Blazer 6.2 Liter Diesel, P/W,P/L,P/B,P/S Luggage Rack, Pull out Tape Deck, \$ 4000 925-373-8360

1971 - Ford Econoline E300, 6 passenger Van 302 V8, auto transmission, 175K miles, new tires, \$600.00 or best

offer. 925-447-1201

Ford 88 one ton, 7.3 Dsl, crew cab, power everything! Conversion seats, newly rebuilt tranny, new master cylinder. Hauls Great! \$5000. Tracy 209-832-1750

Lumber Rack, Rack-it brand (the best), fits long bed Ford 1969-1996 and Chevy 1973-1987. \$125.00 925-846-4081

1995 - RV 36 feet Residency diesel pusher; many extras; excellcondition, call for details. \$77,700.00. 925-449-0430

2000 - Dodge Dakota SLT King Cab, Automatic, Air, Power, Cruise, Line-A-Bed. \$17,500 obo. 925-373-9680

1987 - Class C MH 22ft. Ford 460cc, ps, cc, ac, CD, 70k miles. Solar panels, meter, 25 gal. tank, tub/shower, self-contained, nice, sleeps 6, \$9,500/obo. 408-499-3312

1989 - Dodge Dakota stock CON-VERTIBLE 4X4 truck. very few made. Good condition, tow pkg, new tires, automatic, white, clean 510-537-4777

1985 - GMC 305-V8 Van, Former Pac Bell Van with ladder rack and other extras-good tires too! \$2800 or make offer 925-640-2966

4x4 Tires and Wheels, For Jeep Wrangler BFGoodrich Radial all Terrains 31 x 10.5 on mag rims. Sea. includes spare, low miles. \$700 obo 925-426-8156

VACATION RENTALS

Southern MAINE COAST - Unique getaway, private beachfront cottage and home, available August and Fall, fully furnished, seven miles of sandy beach, call for details 925-516-7524

MAUI, Kihei spacious oceanfront condo: ocean view, beautiful white sandy beach, pools, tennis, snorkeling. Low rates. 925-846-1459

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, all amenities, close to all skiing, few weekends left, Reserve Now!! 209-599-4644

HAENA, KAUAI - - Private house and/or studio on the scenic north coast near Hanalei Bay - great beaches, hik-

ing, boating and golf. House-\$125/day, studio-\$75/day. 831-479-3441

SEA RANCH - Oceanview home. No smoking. No pets. Adults only. 2BR(KQ)/2BA 1700sqft. Hike. Bike. Whale watch. Kayak. Swim. Tide pool. 925-443-5086

Pinecrest: - Cabin available near Dodge Ridge skiing. 3 bdrm/2 bath, fireplace w/wood, microwave, pool table, level cleared access to covered parking, \$195/wknd 925-449-5513

WANTED

Wanted, good quality Road Bike, w/56cm (23 in.) frame, willing to pay up to \$300, or less for a bare frame 925-443-5549

Artificial silk plants wanted, one or two medium size ficus or similar, will pay reasonable price 925-736-7799

Wanted: Student flute for beginning flute student. 209-836-9240

Looking for Large house plants and patio furniture. 209-823-5704

Hog Fencing--need 13 panels 16ft. long x 5ft. tall, heavy gauge metal. I will haul 925-557-6834

Treadmill for walking exercise in doors. 925-447-6670

Wanted: A gun safe for a good price. Will haul. 209-832-3772

Wanted: 3 Bdrm/1.5b/Lng trm house rental in Livermore, \$1650-\$1700/mo,will pay xtra dep. for 2 adlt cats 925-447-5204

Wanted Oscilloscope & ultrasound power meter for reasonable price. 925-449-1340

Biobottoms (or other wool) diaper covers. Need large sizes (16 lbs and up). No vinyl. Will pay \$5 per cover. Thanks! 925-417-8894

Wanted: exercise treadmill must be in excellent condition. 209-599-7199

HOUSECLEANER WANTED: Someone who can clean a <2000 sq ft house in Livermore to a high standard of cleanliness. Once per week. 650-291-8884

I need bodies to practice my energy massage on. Very relaxing work, light pressure. Tri-Valley area. Fully clothed. No cost! 510-791-8623

MAVIS BEACON TEACHES TYPING - older version that does not require Power Mac 925-443-4918

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, **Newsline cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.**

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>

8 Newsline

Friday, February 9, 2001

NIF

Continued from page 1

aggressive schedule,” says Amplifier Associate Project Manager Doug Larson.

One difficulty the Amplifier Assembly team overcame was to assemble these school bus-size amplifiers with the great alignment accuracy required by NIF. Parts inside the amplifiers were aligned and fixed within one fourth of a millimeter.

Some of the parts, 72 flashlamp window assemblies, were put together in the Optics Processing Lab (OPL) in Bldg. 391. Then they were carefully transported to the high bay in Bldg. 381 where they were inserted into the amplifier bus.

“All of the large NIF optics will pass through Bldg. 391’s OPL,” said Gina Bonanno, associate project manager for Assembly, Installation and Refurbishment, “and this is the first production run performed in that facility. Jim Fair the OPL manager and the two production leads, Guy Robitaille and Sue Frieders led the team that worked very hard to make this happen.”

“This is the first step. A total of 1,728 flashlamp window assemblies will be required for NIF. Typically, the Lab does not produce large quantities of anything,” Bonanno said, “so we’ve been challenged to not only build complex opto-mechanical assemblies, but to do it in large quantities while meeting strict standards of quality. I’m impressed with how well the team has performed.”

Once the amplifier is assembled it will not be cleaned again. So all of the assembly work is done in Class 100 clean rooms: Bldg. 381 high bay and the Optics Processing Lab in Bldg. 391. A Class 100 clean room refers to the quality of air: no more than 100 particles greater in size than half a micron per cubic foot of air.

In addition to working in a clean environment, the assembly teams must keep the surfaces of the various parts with which they work at Level 83 cleanliness.



JACQUELINE MCBRIDE/PUBLIC AFFAIRS

NIF technicians and riggers attach the lifting fixture, called the strong back, to move the first amplifier bus. Known as PA, the bus will hang from the strong back and be cushioned by inflatable pillows inside the container.

This means there are no more than 900 particles per square foot that are greater in size than five microns on the surface of the items. It is difficult to see a spec of dust that is five microns. The diameter of a human hair is 100 microns.

These super clean requirements are necessary while building, moving and attaching the amplifiers to the NIF system. Even the transport container that stores the massive frames for the amplifiers is specially designed to keep them clean, temperature controlled and precisely aligned while they wait their turn to be placed in NIF.

“This is the culmination of five years of planning and hard work by many people,” said Buzz Pedrotti, lead engineer of NIF amplifier mechanical systems. “The responsible engineer, Ernie Moor, production manager Tom Kohut, and their teams of engineers, designers, coordinators, technicians, buyers and suppliers have done a remarkable job of satisfying many difficult requirements for these large structures.

“They have created a production line that safely produces clean, electrically isolated, leak-free enclosures assembled to very tight tolerances. We are proud of our team and delighted that the factory is producing,” he said.

DIRECTOR'S OFFICE

Continued from page 1

Disk imaging

Each fiscal year, LLNL purchases nearly 5,000 new computer systems. In the desktop arena these are primarily Apple Macintosh and Dell PCs. These 5,000 new systems require a few hours per system to set up for the user. Institutionally prevalent software (that is, the COE) must be installed, security fixes applied, network settings configured, and user data migrated from their old machines.

An approach used by industry is to “image” the systems prior to delivery to the user with the COE pre-installed. The labor savings from this procedure are substantial and it will improve the quality of service users receive as their systems are brought on line faster. During FY00, the SouRCe has already demonstrated this disk imaging capability on Macintosh systems that were sold through the Computing Resource Center. In FY01, Windows 2000 Professional images will be provided for PC systems in the same way that they have been provided for Macintosh systems.

Another related effort under consideration by the CIO is to solicit bids from value-added resellers to provide bundled Macintosh and Dell systems to LLNL users. The bundled systems could come with the SouRCe-developed images pre-installed and the computer delivered by the reseller to the user’s desk. An on-line ordering system with a Web-page interface to purchase these systems is proposed in an attempt to streamline and improve the ordering experience for the user. A decision to award a contract will be made

after analyzing the bids and soliciting appropriate management endorsement.

Automated Software Distribution

While the Disk Imaging Project will address newly procured systems, the ASD Project addresses the other 15,000 to 20,000 computers currently operating on our unclassified networks. The SouRCe has evaluated several software products that provide the capability to automatically upgrade operating systems and applications on computer systems. Since LLNL has a diverse computing environment, a product is needed that can handle Macintosh, Windows and UNIX systems.

The result of the evaluation was the selection of Novadigm’s Radia software. This product allows for either software “push” initiated by the support staff to upgrade target systems, or a user-initiated “pull” to accomplish the same task. The labor savings from this type of capability are tremendous, and our ability to respond to the need to push out security patches or other compliance-driven upgrades is also greatly enhanced. It will free up the bulk of our support staff for more crucial programmatic priorities. It will also allow programs to “push” or “pull” other software packages to their users that might be unique to their program.

In FY01, ASD efforts will concentrate on Macintosh and PC systems. The Novadigm software also provides a client for Solaris and Linux that will be implemented in FY02.

Summary

In conclusion, the Integrated Desktop Model

March 21, 2001

Science Day

A Celebration of Science and Technology
Sharing History, Challenges in the Next Decade



Reserve this date!

Wednesday, March 21 Bldg. 123 Auditorium

The Lab will showcase its latest scientific & technological accomplishments at Science Day, a daylong event featuring presentations, poster sessions and displays.

Presentations Hear talks on the topic of "Scientific Supercomputing: Meeting National Challenges in the Next Decade via Integration of Theory, Experiments, Technology and Large-scale Simulation."

Poster Session See a spectrum of posters, video displays and demonstrations representing all Lab programs and directorates.

A planning committee is in place representing all Lab directorates & disciplines. Contact 2-5214 for the name of your representative.

Questions?
Contact Tracey Barnes, 2-5214,
barnes22@llnl.gov
See the Science Day Website at
<http://stars.llnl.gov/ScienceDay/>

with its Disk Imaging and Automated Software Distribution Projects will streamline computer support, ease the labor burden on existing staff, and improve the quality of support that the user experiences.

Dave Cooper is the Lab's AD for Computations and the Chief Information Officer.



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